



REPLACEMENT SHEET
Atty Docket: 166538006US Inventors: Patwardhan et al.
Title: METHOD AND SYSTEM FOR WATER QUALITY TRADING

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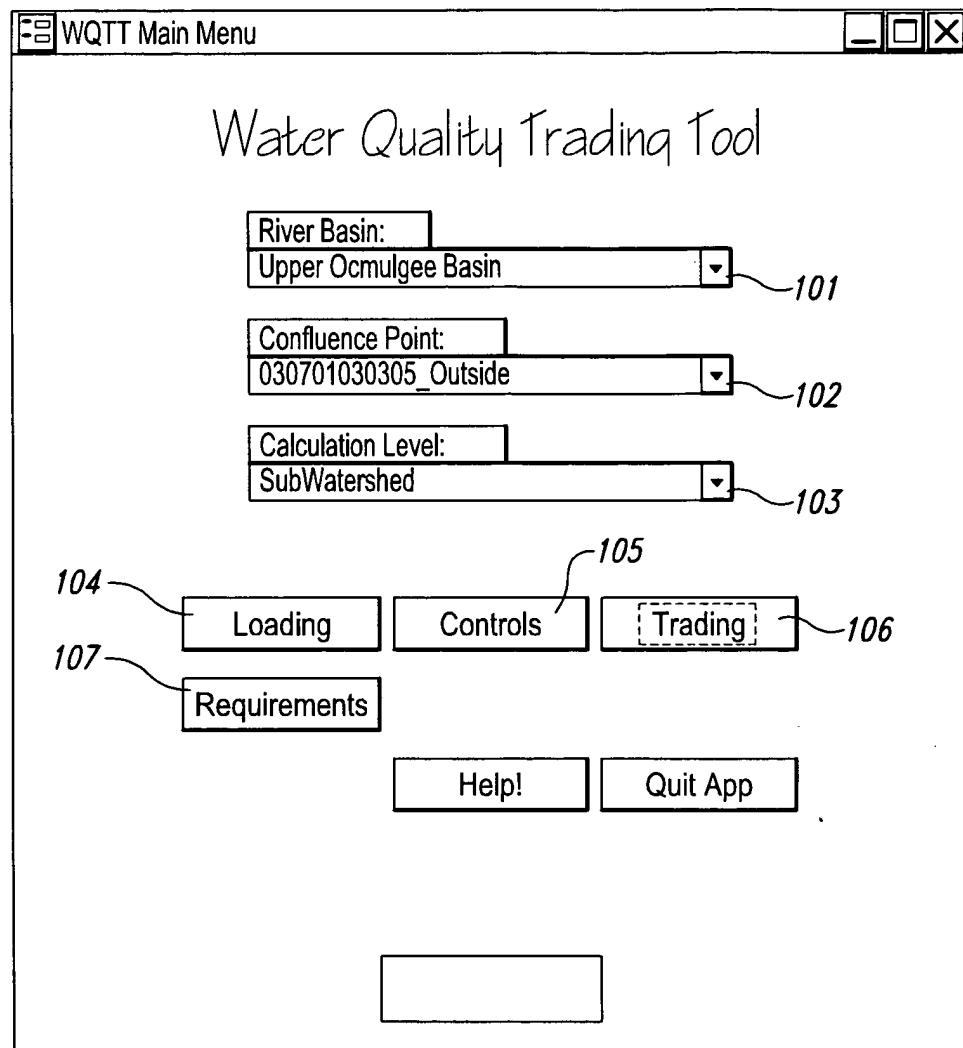


Fig. 1

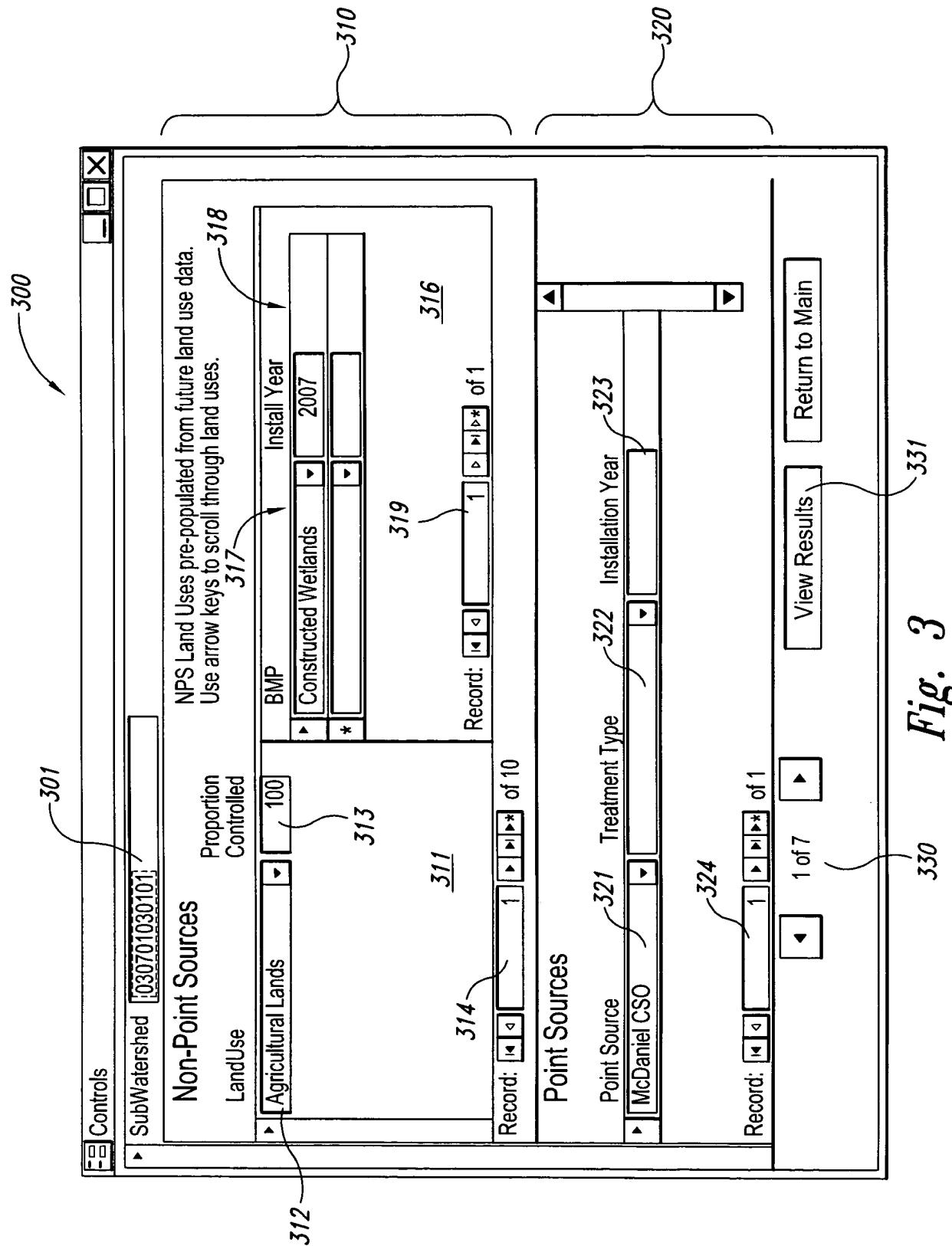
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Existing and Future TP loading at 030701030301_030701030305

SubWaterShed	Non-Point Sources				Point Sources				Total TP Load		
	Current	Future	Future P50	Future P95	Current	Future	Current	Future	P50	P95	
030701030101	11,512	12,260	13,029	14,510	630	501	12,142	13,530			15,011
030701030102	15,362	16,438	17,734	20,228	1,858	1,805	17,221	19,539			22,034
030701030103	15,281	16,248	17,935	21,182	28,029	0	43,310	17,935			21,182
030701030104	16,819	17,508	19,561	23,514	0	0	16,819	19,561			23,514
030701030105	13,937	15,347	16,827	19,678	5,841	0	19,778	16,827			19,678
030701030106	8,651	8,482	9,411	11,200	0	0	8,651	9,411			11,200
030701030107A	590	513	586	726	0	0	0	590			726
030701030108B	11,677	10,583	11,728	13,934	0	0	11,677	11,728			13,934
030701030301	6,059	5,633	6,149	7,142	0	0	6,059	6,149			7,142
Confluence Point Total	99,888	103,012	112,960	132,114	36,358	2,306	136,246	115,267			134,420
					Discharge Requirement:	Exceeds?	No	No			No

Fig. 2

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Local Credits at 030701030305_Outside

SubWatershed: 030701030101
 Existing Load: 12,064
 Future Load: 11,214
 Future Load
with No Control: 11,718
 Local Credit: 503

Non-Point Source

Land Use	%	BMP	Install Year	Life	Efficiency	Load Reduced	Cost/ Pound	Total Cost
Commercial	0							
Forest/OpenSpace	0							
High Density Residential	0							
Industrial / Institutional	100	Grassed Ditch (<5%slope,dam)	2005	50	0.34	503	\$1,791	\$901,350
Low Density Residential	0							
Medium Density Residential	0							
Transportation and Utilities	0							
Water / Wetlands	0							

Point Source

PoinSourceID	PS Name	Treatment Type	Effluent Conc.	Install Year	Total Cost
GA_McDaniel	McDaniel CSO				\$0

Fig. 4

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Watershed Credits
at 030701030305_Outside
Confidence Level of 0.8

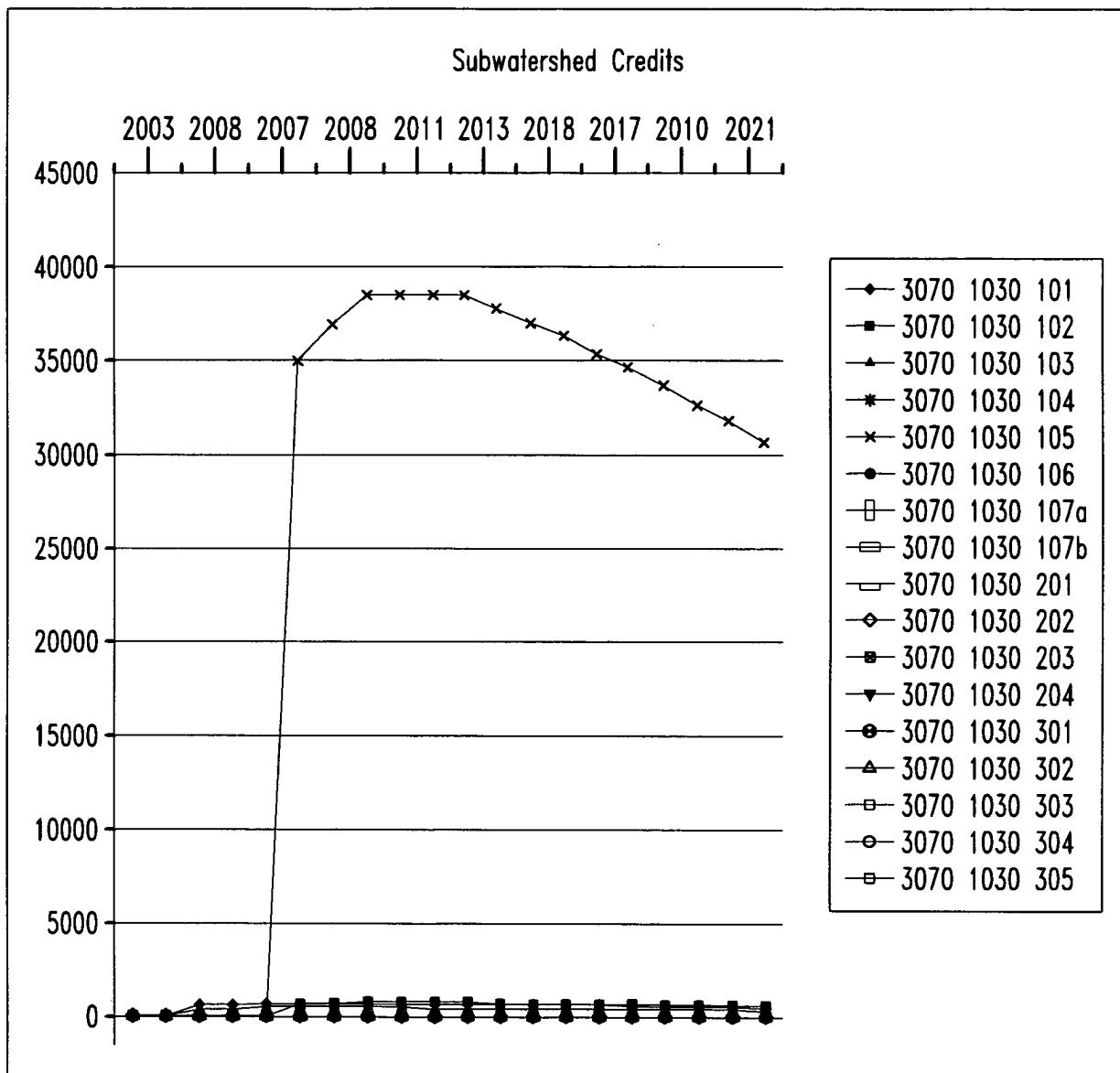


Fig. 5A

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SubWatershed: 030701030101

NPS Cost: \$901,350

PS Cost: \$0

Total: \$901,350

Year	Existing Load	Future Load No Controls	Future Load w/Controls	Local Credit	Watershed Credit	UR
2003	12,064	14,269	14,269	0	0	0.98206
2004	12,064	14,269	14,269	0	0	0.98206
2005	12,064	14,269	13,779	453	490	0.98197
2006	12,064	14,269	13,752	478	517	0.98196
2007	12,064	14,269	13,725	503	544	0.98195
2008	12,064	14,269	13,725	503	544	0.98195
2009	12,064	14,269	13,725	503	544	0.98195
2010	12,064	14,269	13,725	503	544	0.98195
2011	12,064	14,269	13,737	492	532	0.98196
2012	12,064	14,269	13,749	481	520	0.98196
2013	12,064	14,269	13,761	470	508	0.98197
2014	12,064	14,269	13,773	458	496	0.98197
2015	12,064	14,269	13,785	447	484	0.98198
2016	12,064	14,269	13,797	436	472	0.98198
2017	12,064	14,269	13,810	425	460	0.98198
2018	12,064	14,269	13,822	414	448	0.98199
2019	12,064	14,269	13,834	403	436	0.98199
2020	12,064	14,269	13,846	391	423	0.98200
2021	12,064	14,269	13,858	380	411	0.98200
2022	12,064	14,269	13,870	369	399	0.98200

Fig. 5B

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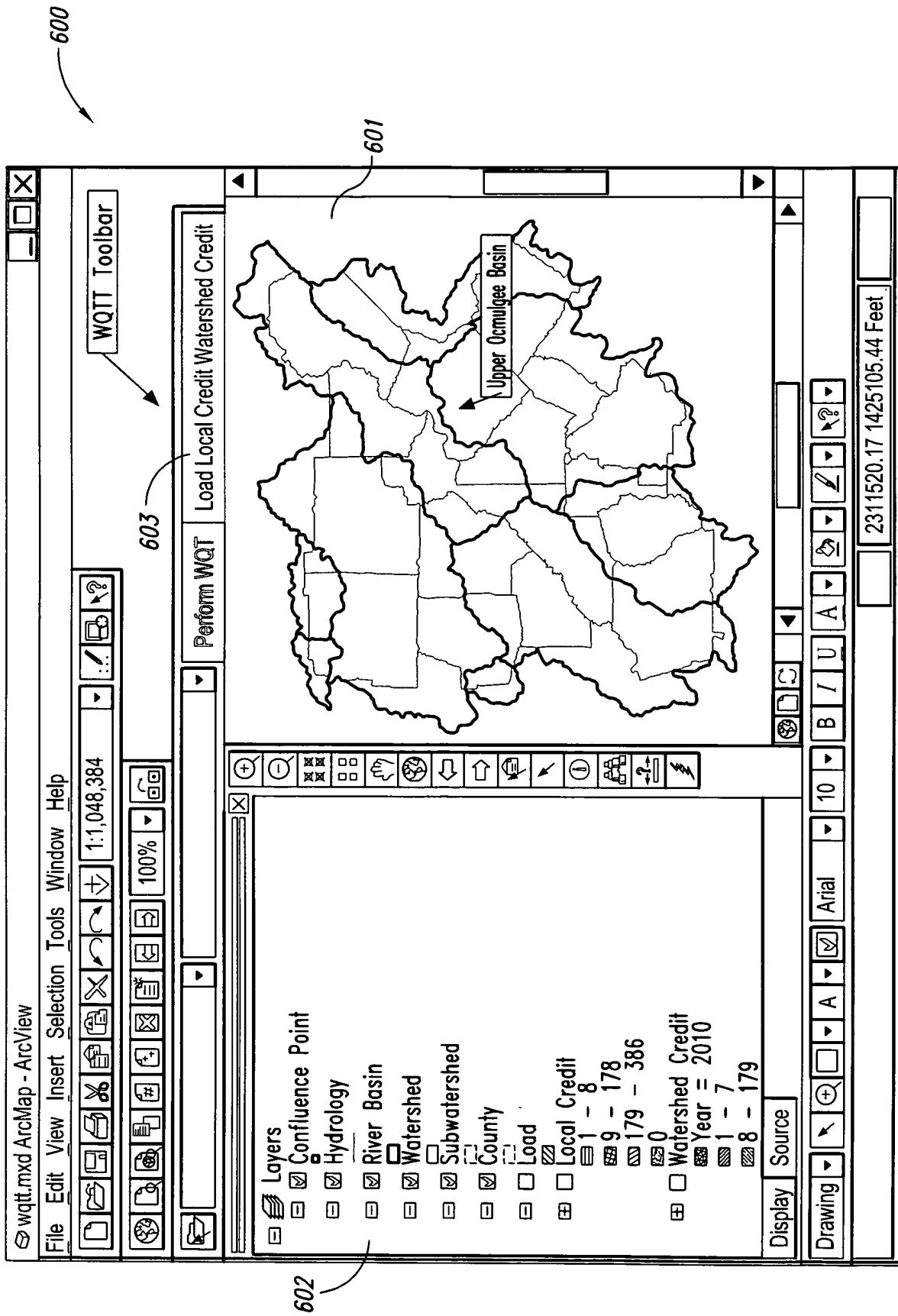


Fig. 6

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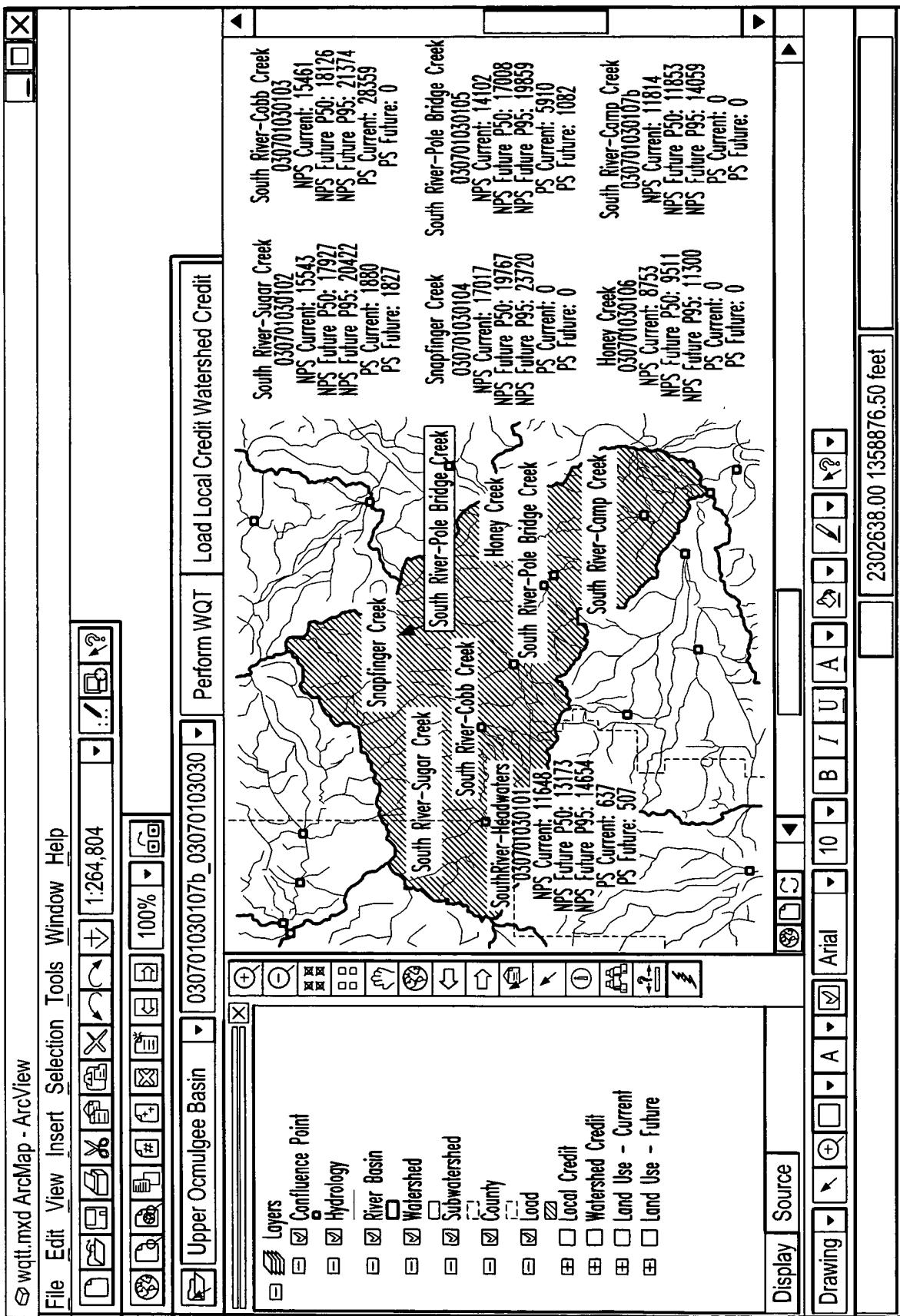


Fig. 7

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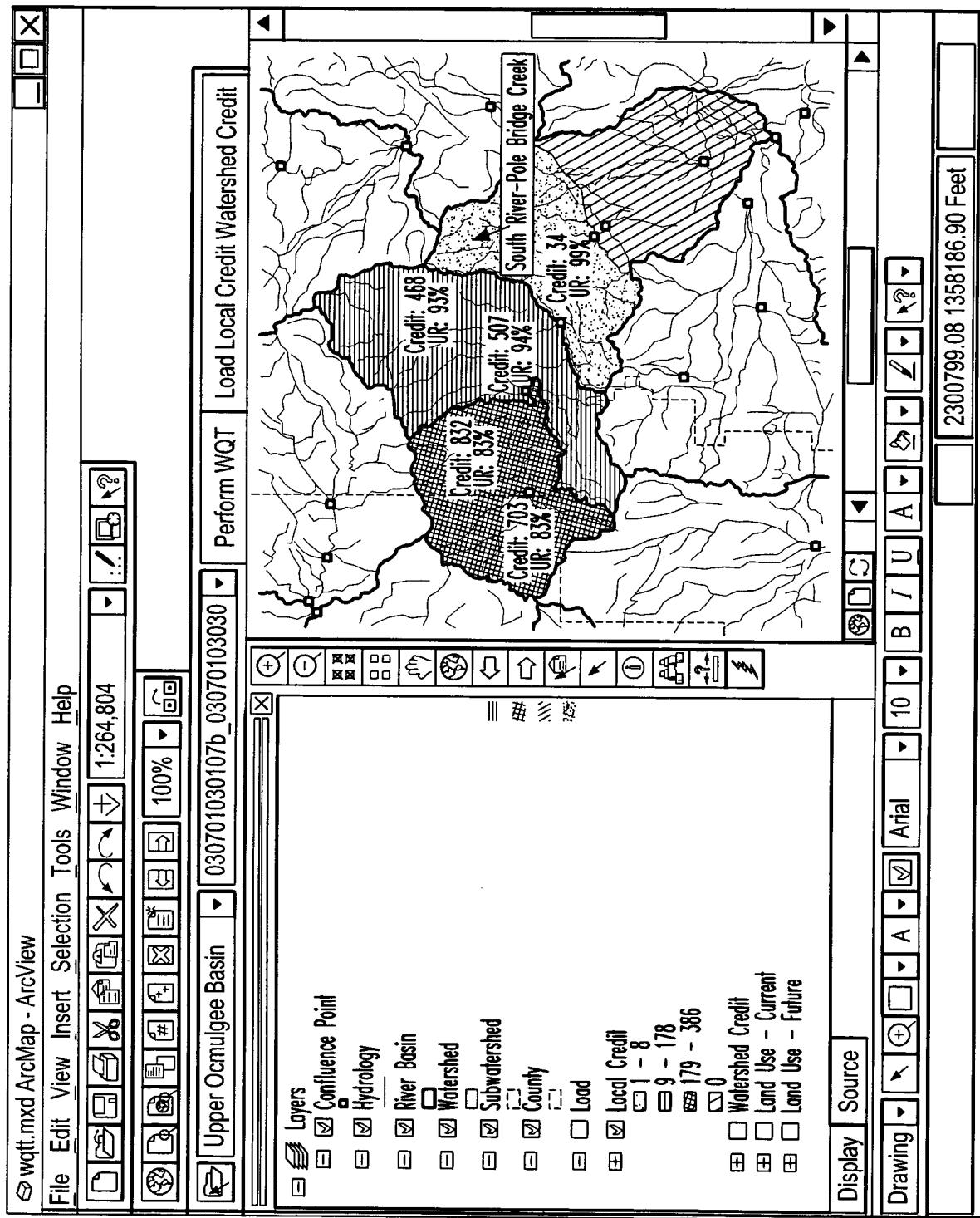


Fig. 8

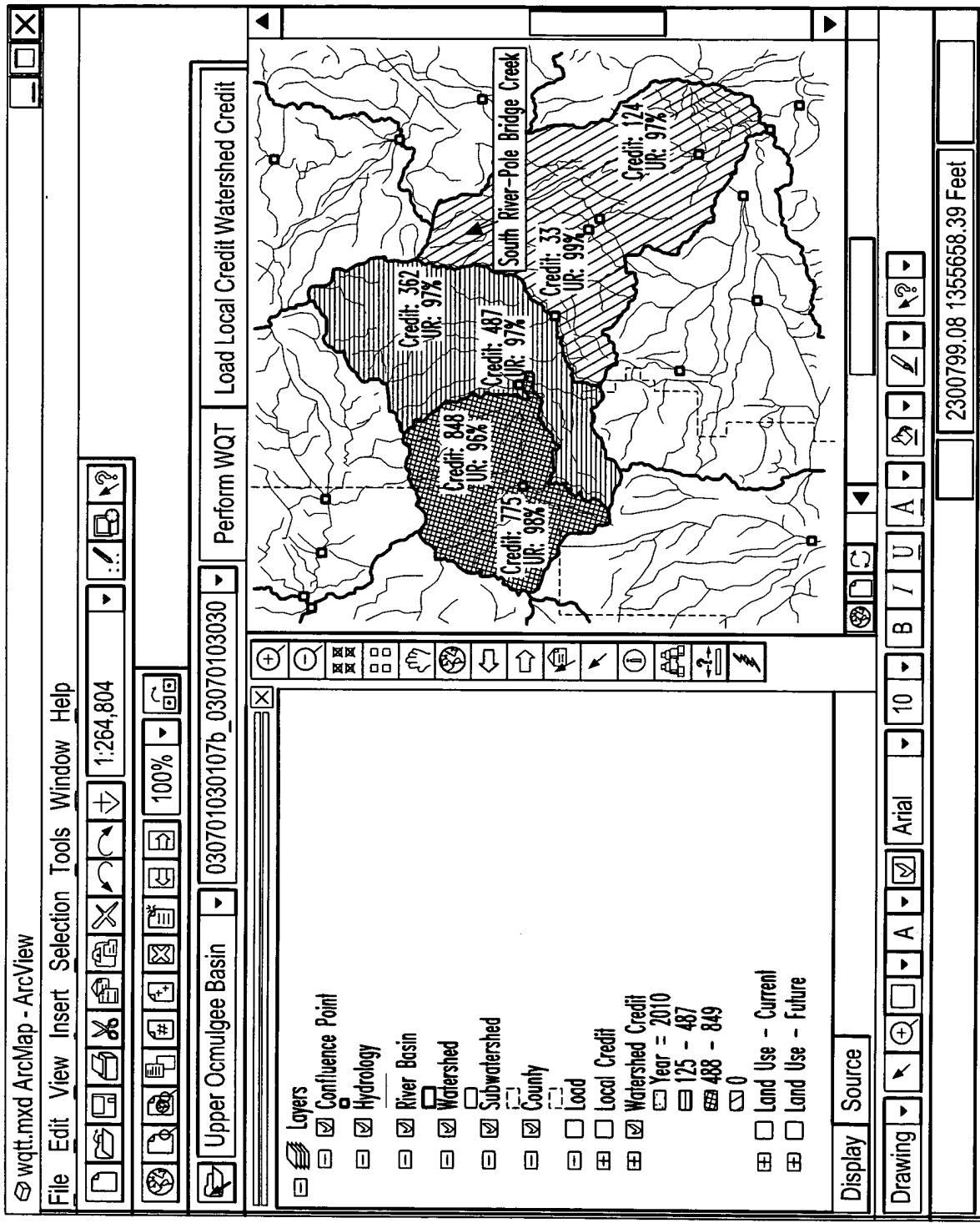
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Fig. 9

WATERSHED CREDITS ARE SHOWN ON A YEAR-BY-YEAR BASIS.



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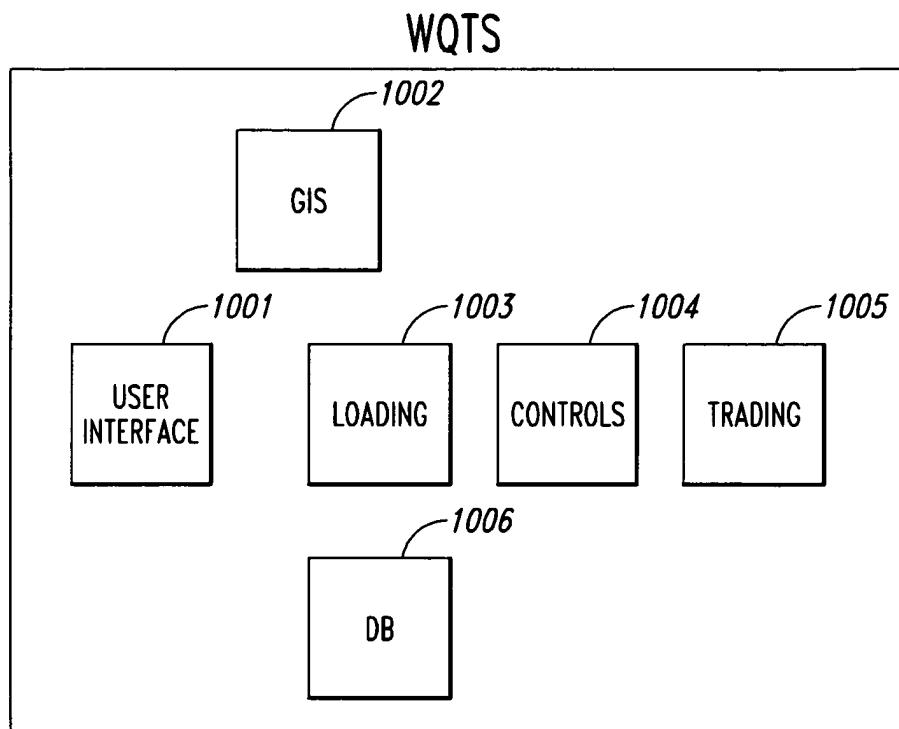


Fig. 10

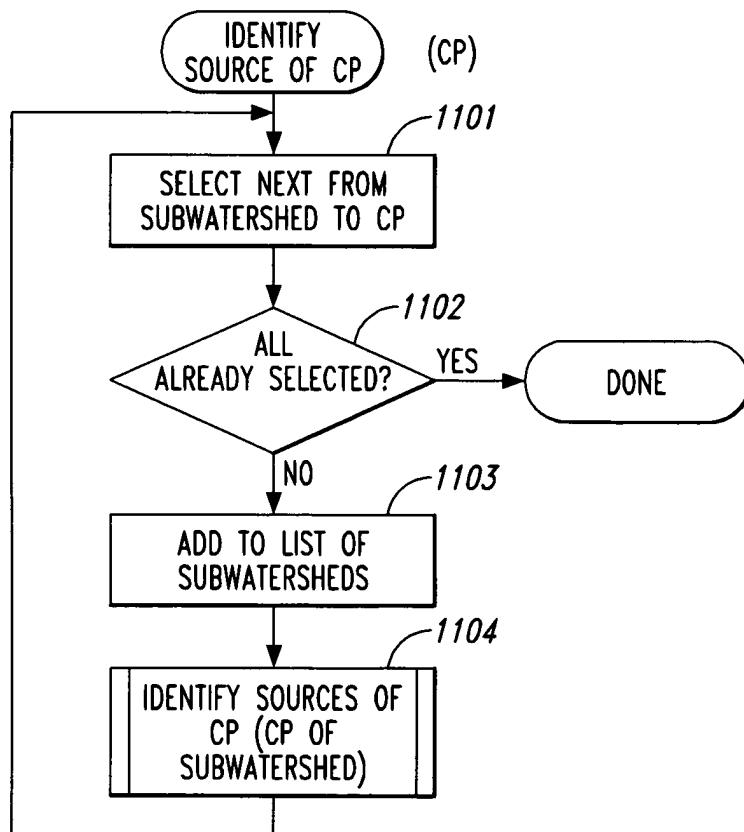


Fig. 11

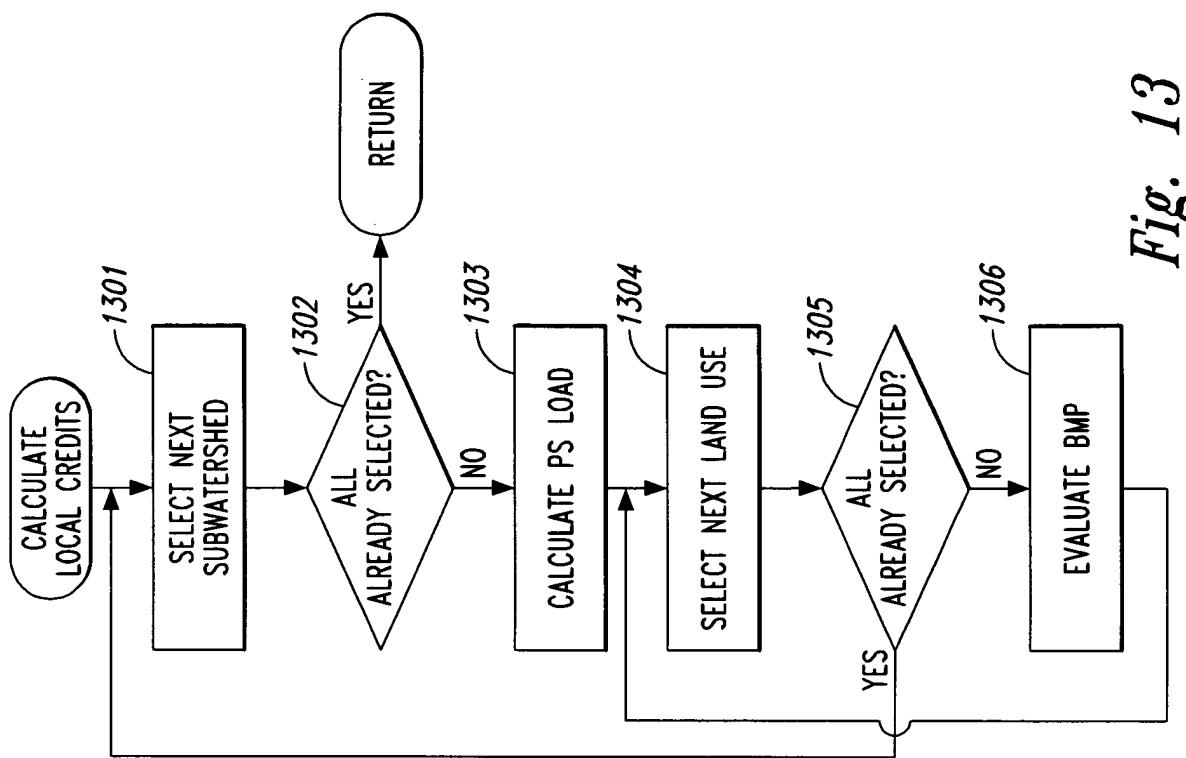


Fig. 13

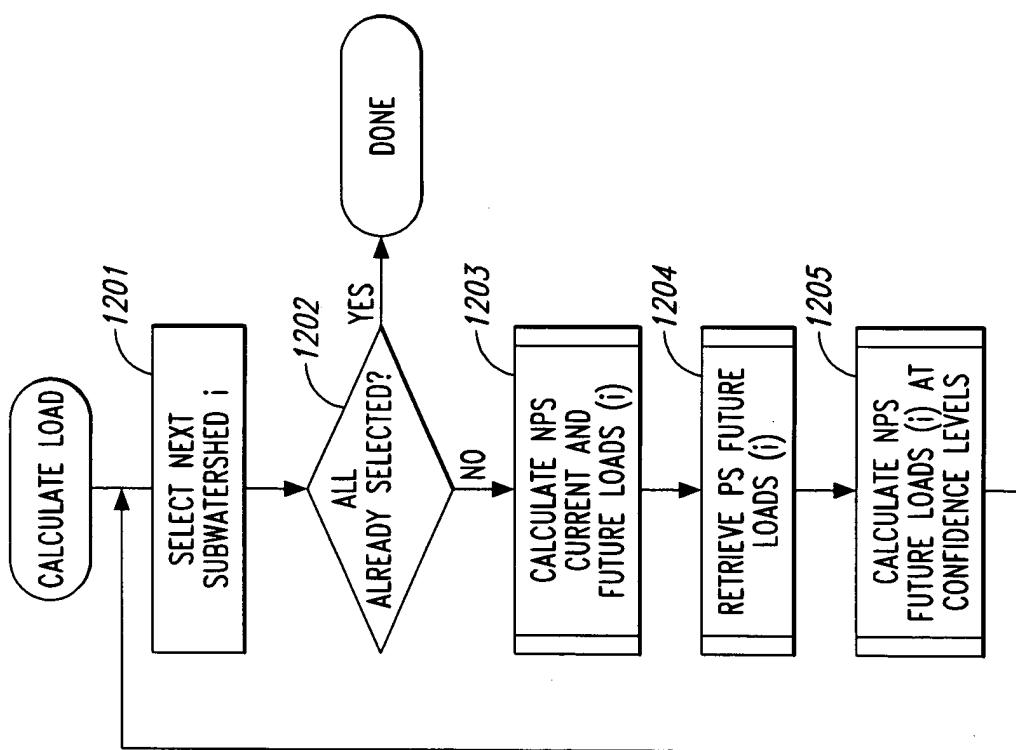


Fig. 12

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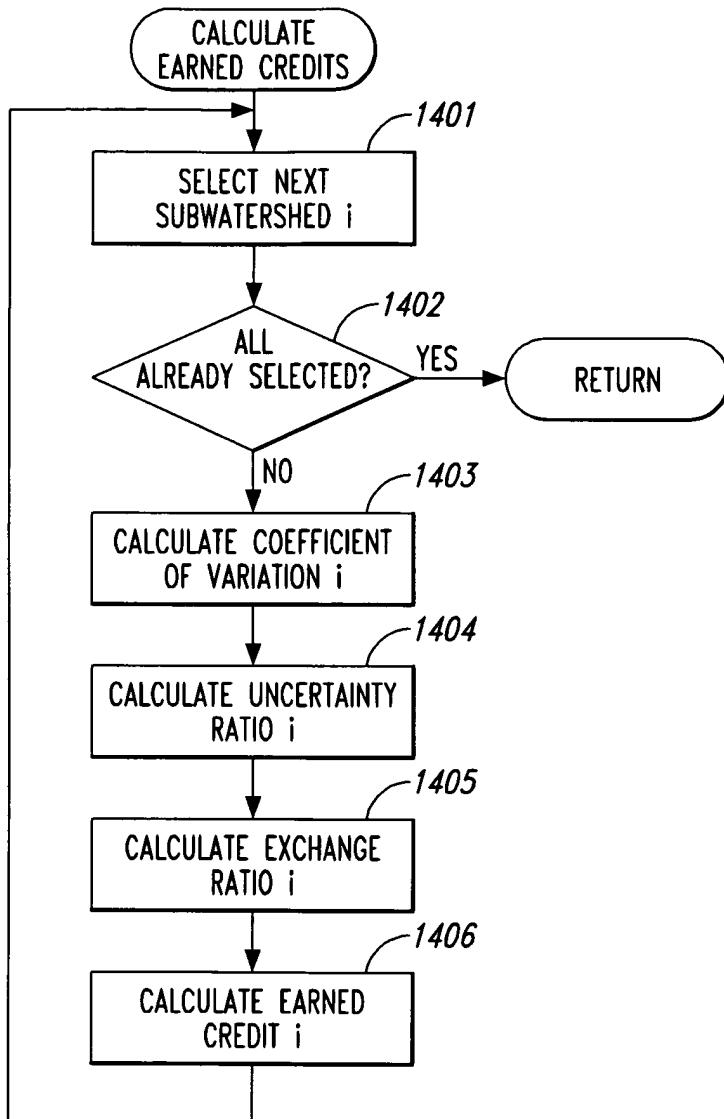


Fig. 14